

Analysis and Control of Beam Dynamics in EMMA

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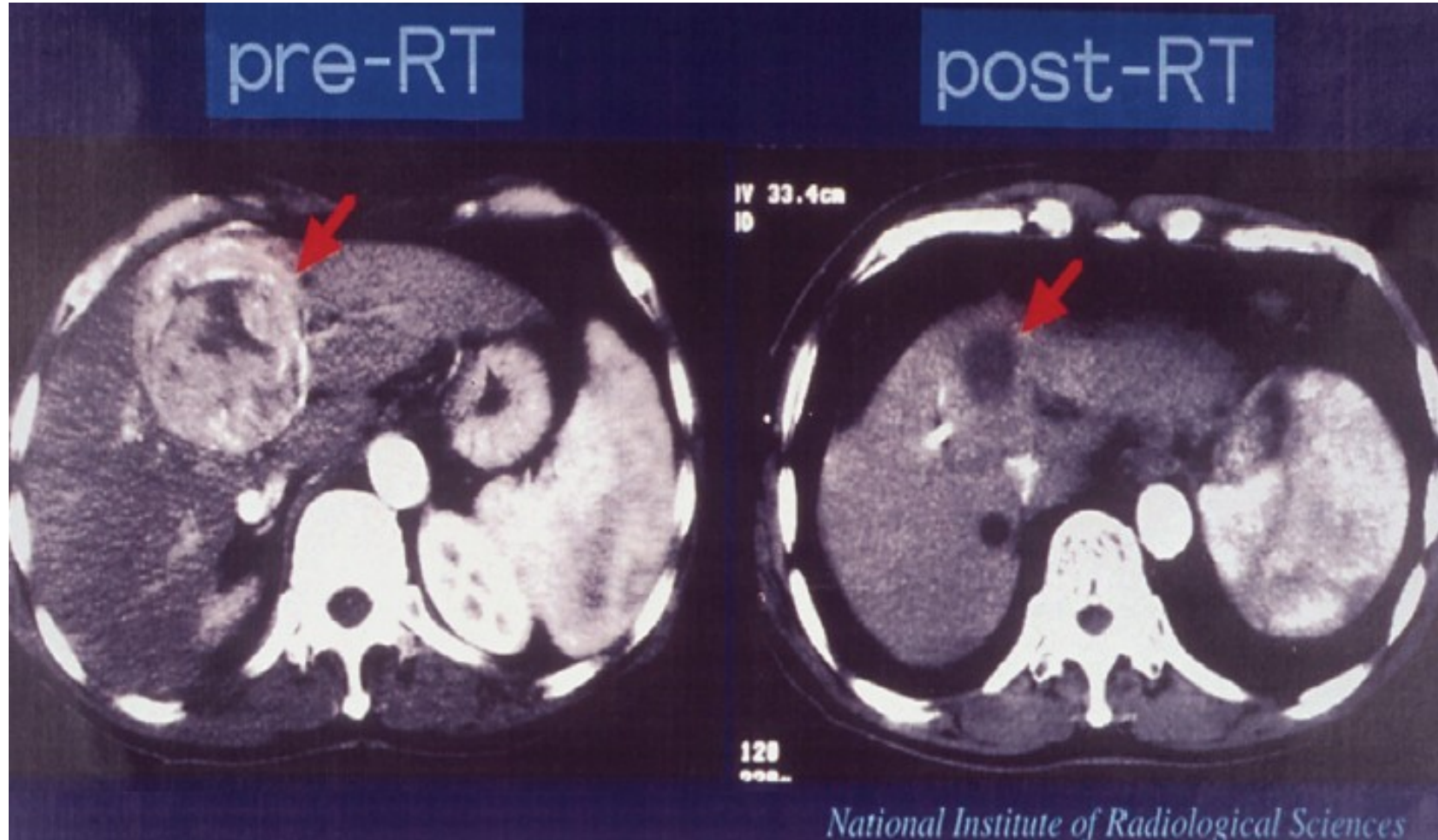
STFC PPRP Meeting, Glasgow, 24 June 2009

Overview

1. The objective
2. The project
3. The risks
4. Can we do it?
5. The STFC mission
6. The conclusion

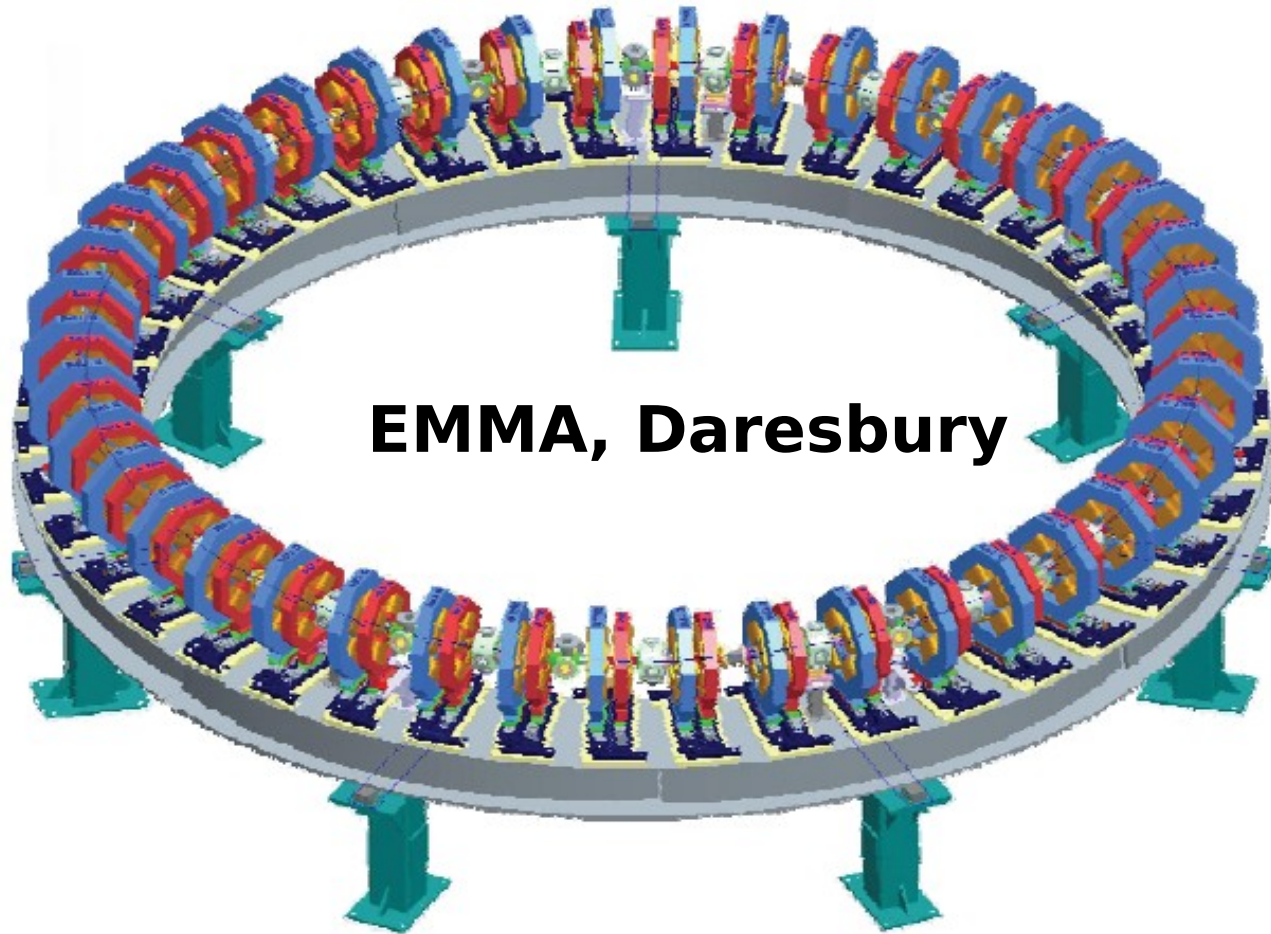
The objective

... is to develop the techniques to accelerate particles in a new type of accelerator. This accelerator is called EMMA.



The project

Our project is to develop the techniques to use EMMA.



The risks

We are up against an untested technology. We are competing against countries that are years ahead.



Can we do it?

Much of the expertise in the UK in circular accelerators lives in the Cockcroft Institute – in the Liverpool accelerator physics group.



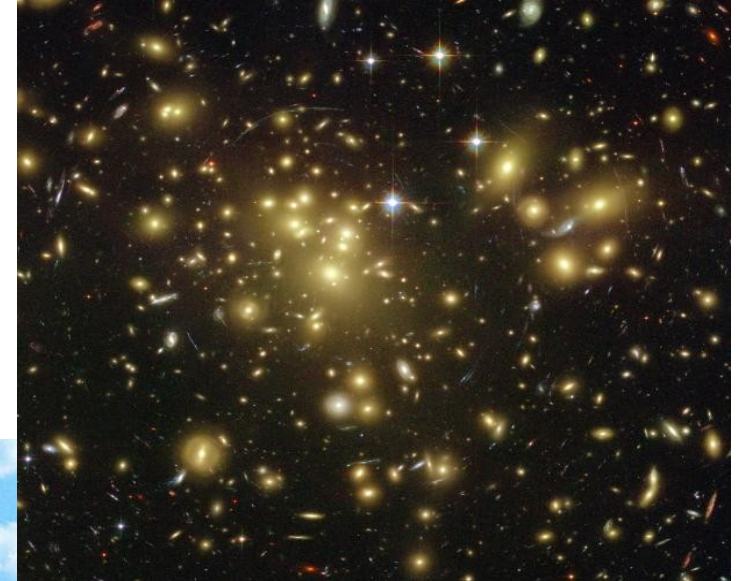
UNIVERSITY OF
LIVERPOOL

The Cockcroft Institute
of Accelerator Science and Technology



The STFC mission

... medicine, energy, science, industry ...



Conclusion

How much does it cost to cure cancer patients,
understand the universe, and solve our energy problem?